

CLAIMS

What is claimed is:

1. A method for evaluating system behavior of an application domain within a grid environment comprising the steps of:
 - identifying a host software object within said application domain;
 - associating a software object with said host software object;
 - within said associated software object, replicating host actions;
 - recording said replicated actions;
 - moving said host software object from one grid within said grid environment to another grid; and,
 - responsively moving said associated software object in accordance with movement of said host software object.
2. The method of claim 1, further comprising the step of:
 - determining usage statistics for said application domain based at least in part upon said recorded actions;
3. The method of claim 2, said determining step further comprising the step of:
 - determining usage statistics for application domain features of said application domain.
4. The method of claim 2, further comprising the step of:
 - optimizing performance of said application domain based upon said usage statistics.
5. The method of claim 1, wherein said replicated actions are passive actions, said method further comprising the step of:
 - preventing said replicated actions from operationally executing in said grid environment.

6. The method of claim 1, further comprising the steps of:
determining a location for logging data that is external to said associated software object; and,
conveying said recorded replicated actions to said determined location.
7. The method of claim 1, further comprising the steps of:
disassociating said associated software object from said host software object; and,
associating said software object with a different host software object within said application domain.
8. The method of claim 1, further comprising the steps of:
cloning said associated software object to create a copied object; and,
associating said cloned object with a different host software object within said application domain.
9. The method of claim 1, further comprising the steps of:
selecting a plurality of host software objects within said application domain; and,
for each selected host software object, repeating said associating step, said replicating step, and said recording step.
10. A system for logging application domain information within a grid environment comprising:
an application domain that utilizes computing resources from a plurality of different grids in said grid environment;
at least one host software object configured to execute actions within said application domain, wherein different ones of said executed actions are executed within different grids of said grid environment; and,

at least one ghost agent configured to record said executed actions for an associated host software object.

11. The system of claim 10, wherein said at least one host software object comprises a plurality of host software objects, and wherein said at least one ghost agent comprises a plurality of said ghost agents.

12. The system of claim 11, further comprising:
an application domain data store configured to receive messages from said ghost agents.

13. The system of claim 11, further comprising:
an application analyzer configured to analyze application-specific data gathered by said ghost agents.

14. A ghost agent comprising:
a ghost log configured to record application-specific activities performed by a host software object;
a ghost identifier configured to identify said ghost agent to components within a grid environment; and,
a ghost controller for managing interactions between said ghost agent and said grid environment, wherein said ghost agent can move from grid to grid within said grid environment.

15. The ghost agent of claim 14, further comprising:
means for linking said ghost agent with said host software object.

16. The ghost agent of claim 14, further comprising:
means for disassociating said ghost agent from said host software object;
and,

means for linking said disassociated ghost agent to a different host software object.

17. A machine-readable storage having stored thereon, a computer program having a plurality of code sections, said code sections executable by a machine for causing the machine to perform the steps of:

- identifying a host software object within said application domain;
- associating a software object with said host software object;
- within said associated software object, replicating host actions;
- recording said replicated actions;
- moving said host software object from one grid within said grid environment to another grid; and,
- responsively moving said associated software object in accordance with movement of said host software object.

18. The machine-readable storage of claim 17, further comprising the step of: determining usage statistics for said application domain based at least in part upon said recorded actions.

19. The machine-readable storage of claim 18, said determining step further comprising the step of: determining usage statistics for application domain features of said application domain.

20. The machine-readable storage of claim 18, further comprising the step of: optimizing performance of said application domain based upon said usage statistics.

21. The machine-readable storage of claim 17, wherein said replicated actions are passive actions, said method further comprising the step of:

preventing said replicated actions from operationally executing in said grid environment.

22. The machine-readable storage of claim 17, further comprising the steps of:

determining a location for logging data that is external to said associated software object; and,
conveying said recorded replicated actions to said determined location.

23. The machine-readable storage of claim 17, further comprising the steps of:

disassociating said associated software object from said host software object; and,
associating said software object with a different host software object within said application domain.

24. The machine-readable storage of claim 17, further comprising the steps of:

cloning said associated software object to create a copied object; and,
associating said cloned object with a different host software object within said application domain.

25. The machine-readable storage of claim 17, further comprising the steps of:

selecting a plurality of host software objects within said application domain; and,
for each selected host software object, repeating said associating step, said replicating step, and said recording step.

26. A system for evaluating system behavior of an application domain within a grid environment comprising the steps of:

- means for identifying a host software object within said application domain;

- means for associating a software object with said host software object;

- means for replicating host actions within said associated software object;

- means for recording said replicated actions;

- means for moving said host software object from one grid within said grid environment to another grid; and,

- means for responsively moving said associated software object in accordance with movement of said host software object.